Domestic and foreign R&D paid for by the company and others and performed by the company, by type of R&D and selected industry for companies that performed foreign R&D: 2016
(Millions of U.S. dollars)

					Research (basic and applied)						Development				
Industry	NAICS code	Total	Paid for by company	Paid for by others	Total		Paid fo by compar		Paid for by other	y	Total		Paid for by company	Paid for by others	
•			Domesti	c R&D per	formance	,		Ť							
All industries	21-23, 31- 33, 42-81	271,023	240,862	30,161	53,859		46,434		7,424		217,164		194,428	22,736	
Manufacturing industries	31-33	182,727	161,405	21,321	41,296		36,679		4,617		141,431		124,726	16,705	
Chemicals	325	45,301	43,517	1,784	15,527		14,987		541		29,774		28,530	1,243	
Pharmaceuticals and medicines	3254	38,893	37,597	1,296	13,665		13,482		183		25,228		24,115	1,113	
Other chemicals	other 325	6,408	5,920	488	1,862		1,504		358		4,546		4,416	131	
Computer and electronic products	334	67,266	62,642	4,624	10,320		9,631		689		56,946	i	53,012 i	3,935	
Semiconductors and other electronic components	3344	28,655	28,289	366	4,826		4,815		11		23,829	i	23,474 i	355	
Other computer and electronic products	other 334	38,611	34,353	4,258	5,494		4,816		678		33,117		29,537	3,580	
Nonmanufacturing industries	21-23, 42- 81	88,296	79,457	8,839	12,563		9,755		2,808	i	75,733		69,701	6,032	
Information	51	59,960	59,653	307	5,391		5,322		69		54,568		54,331	238	
Software publishers	5112	29,817	29,566	251	3,137		3,105		32		26,680		26,461	219	
Other information	other 51	30,143	30,086	56	2,254		2,217		37		27,888		27,869	19	
Professional, scientific, and technical services	54	20,080	11,663	8,417	5,719	i	2,983	i	2,736	i	14,360	i	8,680	5,681	
Scientific research and development services	5417	8,155	333	7,822	2,398	i	138	i	2,261	i	5,756	i	195	5,561	
Other professional, scientific, and technical services	other 54	11,925	11,330	595	3,321	i	2,845	i	476		8,604		8,485	120	
			Foreign	R&D perfe	ormance										
All industries	21-23, 31- 33, 42-81	77,146	70,326	6,820	17,430		15,569		1,861	i	59,716		54,757	4,959	
Manufacturing industries	31-33	52,689	51,421	1,268	12,910		12,685		225		39,779		38,736	1,042	
Chemicals	325	12,313	12,146	167	3,944		3,898		47		8,369		8,248	120	
Pharmaceuticals and medicines	3254	9,914	9,768	146	2,984		2,952		32		6,930		6,816	114	
Other chemicals	other 325	2,399	2,378	21	960	i	946	i	14		1,439		1,432	7	
Computer and electronic products	334	20,791	20,530	261	5,830	i	5,734	i	96		14,961	i	14,796 i	165	
Semiconductors and other electronic components	3344	10,304	10,278	26	2,118	i	2,114	i	4		8,186	i	8,164 i	22	
Other computer and electronic products	other 334	10,487	10,252	235	3,712	i	3,620	i	91		6,775		6,632	143	
Nonmanufacturing industries	21-23, 42- 81	24,457	18,905	5,552	4,520	i	2,884	i	1,636	i	19,937		16,021	3,917	
Information	51	13,384	13,355	29	1,805		1,800		5		11,580		11,556	24	
Software publishers	5112	8,693	8,682	12	1,392		1,392		0		7,301		7,289	12	
Other information	other 51	4,691	4,674	17	412	i	408	i	5		4,278	i	4,266 i	12	
Professional, scientific, and technical services	54	9,176	3,690	5,486	2,446	i	829	i	1,617	i	6,730	i	2,862	3,868	
Scientific research and development services	5417	5,412	64	5,348	1,545	i	16		1,528	i	3,867	i	47	3,820	

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TABLE 23

Domestic and foreign R&D paid for by the company and others and performed by the company, by type of R&D and selected industry for companies that performed foreign R&D: 2016

(Millions of U.S. dollars)

					Res	Research (basic and applied)					Development			
Industry	NAICS code	Total	Paid for by company	Paid for by others	Total		Paid for by company		Paid for by others		Total	Paid for by company	Paid for by others	
Other professional, scientific, and technical services	other 54	3,764	3,627	138	901	i	812	i	89	i	2,863	2,814	49	

i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2012 North American Industry Classification System.

Note(s)

Detail may not add to total because of rounding. Industry classification is based on the dominant business code for domestic R&D performance, where available. For companies that did not report business codes, the classification used for sampling was assigned. Statistics are representative of companies located in the United States that performed foreign R&D.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2016